

The 4<sup>th</sup> International Scholars' Conference – Universitas Klabat**Paper 186 – Technology****VIRTUAL EXPLORATION APPLICATION OF PROF. DR. R. D. KANDOU HOSPITAL MANADO USING ANDROID AND GAME ENGINE****Oktoverano Lengkong and Juan Nicky Aristo Pattymahu**

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**ABSTRACT**

The hospitals is a place where people who suffer from physical problems to get a care or treatment. Each hospital has a lot of rooms for patients and medical rooms also spread in every hospital environment Prof Dr. R. D. Kandou Manado is the largest hospital in North Sulawesi, has a land area of 55.525 meter square and a land area of 178.380 meter square and has 30 main rooms. Problems that occur, for visitors who first came across this hospital will certainly find it difficult, especially the hospital itself does not provide a complete floor plans or maps of the environment department of Prof. Dr. R. D. Kandou Manado. To provide better service, the hospital need to create a source of information in terms of the layout information as well as information of the room, taking the opportunities that exist, so they made an application which is called the virtual exploration by using smartphone which is the Android to support the means of information in the department of Prof Dr. R. D. Kandou Manado. In producing the 3D buildings on the application, it is made up using the Unity 3D game engine. The methodology used in this study is the Software Engineering (RPL) with the spiral model. The purpose of this study is to allow visitors to explore the hospital environment and helping the hospital to improve services better.

**Keywords—Android, Exploration, Game Engine, Unity3d**